PORTABLE PRECAST CONCRETE MEDIAN BARRIER

ATTENUATION DEVICES

RAISED PAVEMENT MARKERS (White) 397 Each (Yellow) 163 Each

OBLITERATION OF PAVEMENT MARKING 523 SF

1 Each - Type B-65

08**-**0**1-**9**2**

REVISIONS

07-19-01 Revised sign spacing
04-10-02 Revised sign spacing
07-19-02 Revised sign spacing
07-25-03 Reversed End Road Work
& Speed Limit Signs
04-01-04 Revisee W2D-1 and
09-27-04 Revised fee sign. warnin
sign spacing & note 10
09-27-04 Revised sign sequence
PE Stamp added
06-29-05 Revised W4-2. Replaced
R2-5a with W3-5. Rev.
4dv. Warning Table

Adv. Warning Table Added note 11

CHANGE

evised sign spacin

DATE

07-19-01 04-10-02 07-19-02

0-12-05

See precast concrete median barrier table

This document was originally

issued and sealed by

MARK S. GAYDOS

Registration Number

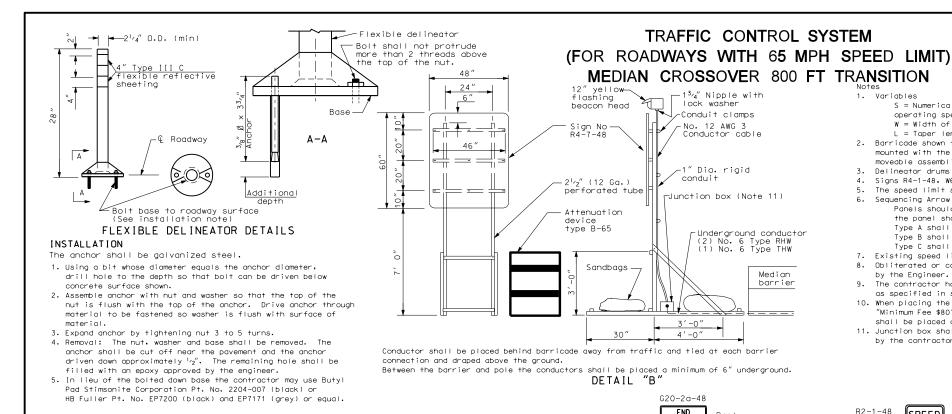
PE- 4518,

on 10/12/05 and the original

document is stored at the

North Dakota Department

of Transportation



© Existing driving lane

S = Numerical value of, posted speed limit, or off-peak 85th percentile speed prior to work starting, or the anticipated operating speed in mph.

W = Width of offset in feet.

- L = Taper length in feet. Speeds 40 mph or less $L=WS^2$ /60. Speeds 45 mph or greater L=WS.
- 2. Barricade shown to be placed on roadway shall be on a moveable assembly. Sign to be mounted on barricades shall be mounted with the sign bottom on the top of the top barricade bar. sign shown to be placed on the roadway shall be placed on moveable assemblies.
- 3. Delineator drums used for tapering traffic and for tangents shall be spaced as shown.
- Signs R4-1-48. W6-3-48 and W20-52-54 shall be installed at one mile increments and after each interchange
- The speed limit sign shall be placed only if the crossover is over 1 mile from an interchange exit ramp. 6. Sequencing Arrow Panels

SPEED

LIMIT

Mounted

- Panels should normally be placed at the beginning of the taper. Where shoulder width does not provide sufficient room. the panel should be moved closer to the work area so that it can be placed on the roadway surface.
- Type A shall be used on roadways with slow moving traffic speeds and low volume (25 mph and 750 ADT or less)
 Type B shall be used on roadways with moderate traffic speeds and volumes (40 mph and 5000 ADT or less)

SEQUENCING ARROW PANEL TYPE C-CROSSOVER 1 Each

Distance Between Signs

150 280

360 720

1350

1500

1000

850

1000

750

280

2200

2640

Min. (ft)

Type C shall be used on roadways with high traffic speeds and volumes (over 40 mph and 5000 ADT) 7. Existing speed limit signs within a reduced speed zone shall be covered.

TYPE III BARRICADES 3 Each

FLASHING BEACON

DELINEATOR DRUMS 25 Each

ADVANCE WARNING SIGN SPACING

Road Type

 Urban - High Speed (over 40 mph to 50 mph)
 360

 Rural - High Speed (over 50 mph to 65 mph)
 720

Urban - Low Speed (30 mph or less) Urban - Low Speed (over 30 to 40 mph)

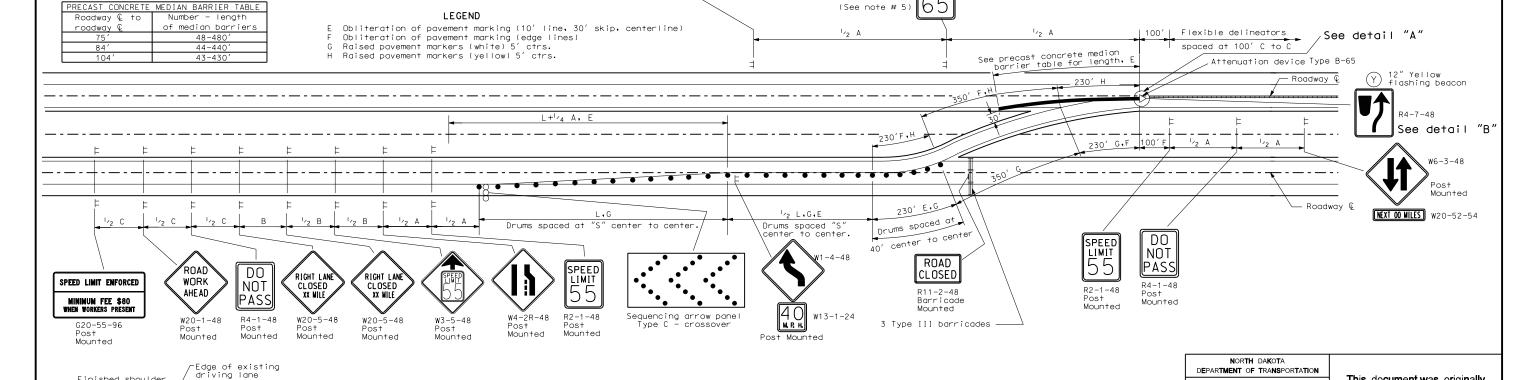
Urban Expressway and Freeway

Rural Expressway and Freeway

Interstate/4-Lane Divided (Maintenance and Surveying)

(55 mph to 60 mph)

- 8. Obliterated or covered pavement marking shall be paid for as Obliteration of Pavement Marking. The covering shall be approved
- 9. The contractor has the option of using portable sign supports in lieu of post mounted sign as shown on the standard drawings as specified in section 704.03 C.
- 10. When placing the traffic control devices, speed reductions will be necessary. These reduced speed areas shall have the "Minimum Fee \$80" sign placed below the speed limit sign. The "Work Zone Speed Limit Enforced" sign in advance of the project shall be placed at the time the traffic control devices are installed.
- 11. Junction box shall be attached to skid or vertical brace assembly. Junction box shall be weatherproof. Size to be determined by the contractor.



ROAD WORK

Type I barricade

Delineator drum

 \equiv

6

Sian

Cones

Type II barricade

Type III barricade

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Work area

Sequencing arrow panel

Type A delineator or

vertical panels back to back

Flagger

12′

Finished shoulde

∽@ of median

Edge of temporary-shoulder

Edge of temporary_

driving lane

recast concrete

median barrier

-Yellow edae line

Edge of existing driving lane

DETAIL "A"

-Existing finished

_Attenuation devices

∼Additional widening